Electrolube® ACT090FG

Thermally Conductive, Electrically Isolating Adhesive Tape

DESCRIPTION

Electrolube® ACT090FG is a thermally conductive and electrically isolating adhesive tape. It has a thermal conductivity of 0.9 W/m-K. The double-sided adhesive layer is pressure sensitive and provides a high bond strength between heatsinks and heat dissipating components. **ACT090FG** creates a thermal connection and mechanical fixation in one step.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Thermal conductivity of 0.9 W/m-K
- High electrical isolation strength
- Strong mechanical bonding to many surfaces, no need for additional clamping
- Available in die-cut formats

APPROVALS

Standard	Status
RoHS	Compliant
REACH	Compliant

PRODUCT INFORMATION

ACT090FG is typically converted into customer specific shapes and sizes.
Standard sheet size is 330 mm x 330 mm (13 x 13”).

TYPICAL PROPERTIES

Category	Result		Unit	Test Method
Physical Property				
Color	White			Visual
Thicknesses	0.15 0.006	0.25 0.01	mm inch	-
Reinforcement Layer	Fiberglass			
Density	1.9		g/cc	ASTM D792
Operating Temperature Range	-60 to 120		°C	-
Lap Shear Strength	50		N/cm^2	ASTM D1002
Die Shear Strength at 25 °C	100		N/cm^2	-
Die Shear Strength at 80 °C	70		N/cm^2	-
Flammability Rating	Meets V-0			UL94
Electrical Properties				
Dielectric Breakdown	2	3	kV	ASTM D149
Volume Resistivity	$>10^{11}$	$>10^{11}$	Ohm - cm	ASTM D257
Thermal Properties				
Thermal Conductivity	0.9	0.9	W/m-K	ASTM D5470
Thermal Impedance at 15 psi	0.47	0.78	$°C\text{-}inch^2/W$	ASTM D5470
Thermal Impedance at 50 psi	0.43	0.73	$°C\text{-}inch^2/W$	ASTM D5470

APPLICATION GUIDELINES

Remove liner from one side and press AT090FG firmly against the surface. Apply pressure from the center of pad towards edge to squeeze out any air pockets. Remove the topliner and attach component. Press strongly for optimal adhesion.

ADDITIONAL INFORMATION

Shelf Life: 12 Months

The product should be tested to ensure its suitability for the end application conditions.

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

To confirm this document is the most recent version, please contact
techinfo@MacDermidAlpha.com
www.macdermidalpha.com

North America 140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460	**Europe** Ashby Park Coalfield Way Ashby de la Zouch Leicestershire, LE65 1JR, UK 44.01530.41960	**Asia** 8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365

Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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